SCOPE OF WORK

FOR

INVASIVE SPECIES MANAGEMENT

IN SUPPORT OF

THE INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN

at

STONE'S RANCH MILITARY RESERVATION

CONNECTICUT ARMY NATIONAL GUARD

1.0 Introduction

This Scope of Work has been written under the provisions of the Sikes Act (16 USC 670a-670f, as amended), the Connecticut Army National Guard's Integrated Natural Resources Management Plan (INRMP), and Executive Order 13112: Invasive Species.

The control and monitoring of invasive plant species are identified as requirements in the implementation of the INRMP, which specifies that species will be removed using chemical and mechanical means. A species list is included in the Major Requirements section. Several of these species need to be sprayed or removed for two consecutive growing seasons for effective removal. This Scope of Work includes the re-visiting of each site for monitoring of invasive species decline and subsequent re-spraying if necessary. All identified species within the specific locations shall be removed under this SOW.

2.0 Site Description

SRMR consists of approximately 1,863 acres located in East Lyme, Lyme, and Old Lyme. Approximately ninety percent of the installation is forested. Other land uses include an airstrip, a cantonment area, and sections of grassland. Invasive Species Management locations will include areas previously managed to ensure species removal, and the southern side of the airstrip (approximately 20 acres). Previous locations to be spot checked include a small (1/4 acre) wetland area, several 2-3 acre bivuoac sites, and the northern half of the airstip area (approximately 20 acres).

3.0 Scope of Work

The contractor, as an independent contractor, not as an agent of the Government, shall provide the technical expertise necessary to provide the products and services described in this Scope of Work (SOW).

Task 1. Pre-Construction Meeting. The Contractor shall meet with Environmental Division Staff and Stone's Ranch Range Control staff on site regarding exact site locations of species management and removal.

Task 2. Spraying. Identify, spray, and remove approximately 30 acres on Stone's Ranch Military Reservation with an approved herbicide to remove the following species during the end of the growing season of 2004:

Common Name	Scientific Name
Oriental bittersweet	Celastrus orbiculatus
Autumn olive	Elaeagnus umbellata
Poison ivy	Toxicodendron radicans
Multiflora rose	Rosa multiflora
Japanese barberry	Berberis thunbergii
Garlic mustard	Alliara petiolata

Oriental bittersweet and poison ivy vines shall be girdled with a chainsaw or other hand tools. Autumn Olive shall be hand cut at the base of each stem in late August or September. Glyphosate shall be sprayed immediately onto the stump. Aerial spraying of autumn olive foliage may also be used.

Task 3. Monitoring. During early summer 2005, the areas treated for invasive species during fall 2004 shall be monitored for success of the treatment. A report shall be filed with the Environmental Division prior to initiating any follow-up treatment.

Task 4. Follow-up Treatment. All areas requiring follow-up will be treated during the 2005 growing season.

Task 5. Material Safety Data Sheet. A Material Safety Data Sheet (MSDS) will be provided 48 hours prior to spraying or other treatment. No spraying will be permitted until the MSDS is received.

4.0 List of Deliverables and Project Milestones

Two reports shall be submitted to the Environmental Division.

Report 1 shall include: a description of all areas sprayed or treated, invasive species found on each site, approximation of each species' abundance, and methods and dates of treatment. This report shall be submitted in October 2004.

Report 2 shall be an evaluation of the 2004 treatment success and shall include: invasive species found on each site, an approximation of each species' abundance, and recommended methods and dates of additional treatment. This report shall be submitted in late June 2005 and shall be used for follow-up treatment decisions.

The CTARNG anticipates that the completion of all tasks required by this SOW will entail approximately one year.